

## WELL SUMMARY

page 1 of 3Location ID: BLM-10-517 Field Representative(s): Cooper/KaszubaNorthing: 223050.75 Easting: 402963.97Date Started: 9 February 1988 Date Completed: 3 March 1988Drilling Method: Air-foam rotary Drilling Contractor: LarjonDriller: Jim GowerTotal Depth Borehole: 568' Total Depth Well Casing: 532.2'Total Depth Surface Casing: 89'Diameter Well Casing: 4" Diameter Surface Casing: 10"Length of Bottom Blank: 5.3'Type of Screen: extra strength 0.02 slotScreen Interval: 517' to 527'Water First Detected: ~ 534' Water Level Open Borehole: 463' (G.L.)Water Level Cased Borehole: 463.5'

## Quik-Foam Use:

Estimated Water Use: 7800 gallons introduced while drilling  
7000 pumped out of mudpit  
~ 800 gallons introduced to formation

Well Casing:

4in x 3ft SCD 40 PVC:	stock SS centralizers:	
4in x 5ft SCD 40 PVC:	custom SS centralizers:	1
4in x 10ft SCD 40 PVC:	4"x2' SS locking riser:	1
4in x 20ft SCD 40 PVC:	4" SS locking cap:	1
Total SCD 40 PVC pipe:	4" SS female cap:	1
		ft
4in x 3ft SCD 5 SS pipe:	1	
4in x 5ft SCD 5 SS pipe:	1	
4in x 10ft SCD 5 SS pipe:		
4in x 20ft SCD 5 SS pipe:	20	
Total SCD 5 SS pipe:	408	ft
4in x 5ft SCD 10 SS pipe:	1	
4in x 10ft SCD 10 SS pipe:	1	
4in x 20ft SCD 10 SS pipe:	5	
Total SCD 10 SS pipe:	115	ft

Well Completion:

100# bags 16/40 sand: 20 bags  
100# bags 10/20 sand: 21 bags  
100# bags 8/14 sand: 1 bags  
100# bags 8/20 sand: 14 bags  
  
94# bags cement: 230 bags  
  
5 gal. buckets bentonite: 3 buckets  
  
50# bentonite powder: 13 bags

Surface Casing:

94# bags cement: 100 bags  
  
50# bags bentonite powder: 11 bags

Pertinent Field Notes:

2/9/88 Mobilize to site, drill 0'-100' with 8 3/4" bit, ream 0'-35' 14 3/4" bit, 900 gallons used Kaszuba  
2/10/88 Ream 35'-85' 14 3/4" bit, 1700 gallons water used Kaszuba  
2/11/88 Ream 85'-90', set 10"x 89' steel surface casing, grout to surface with 100 bags cement mixed with 11 bags bentonite gel Kaszuba  
2/17/88 Drill 100'-262' 9 7/8" bit, compressor broke down, take to shop for repairs, ~ 1500 gallons used Kaszuba  
2/18/88 Bring in new compressor (Ingersoll/Rand) from 150 Area, pump excess water from mudpit, drill 262'-368' 9 7/8" bit, 1000 gallons water used Cooper  
2/19/88 Larjon down for repairs to compressor  
2/20/88 Drill 368'-508' 9 7/8" bit, monitor filters on main canister, 1800 gallons water used Cooper  
2/21/88 Put D. Pearson of S.W. Surveys on standby to drill deeper due to small water column, water level 464', drill 508'-568' 9 7/8" bit, 900 gallons water used, total water pumped out of mudpit to date is 7000 gallons Cooper  
2/22/88 Geophysical logging by D. Pearson of S.W. Surveys, Larjon got casing to complete well, took unofficial samples in open borehole for 8010 and Freon TF, bottom filler sand added  
2/23/88 Bottom bentonite plug put in, ran 4"x533' stainless steel casing, add 8/20 around screen interval, small compressor blew seal and leaked hydraulic fluid on ground and was shoveled onto plastic  
2/24/88 Upper bentonite plug installed and 100 bags cement used to grout  
2/25/88 Added grout 50 bags cement with 5 bags bentonite gel

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2/26/88      Developed well, bailed 33 gallons, pumped 985 gallons, see well  
development sheet for details  
3/3/88      Added grout 80 bags cement with 8 bags bentonite gel, set brass  
cap